

DERWENT-ACC-NO: 1988-359064

DERWENT-WEEK: 198850

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TITLE: Appts. for shaping metal coating on conical surfaces -
has vertically movable holder for conical article between
deforming units in axially spring-tensioned forks

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PRIORITY-DATA: 1986SU-4160339 (December 15, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1398990 A	May 30, 1988	N/A	003	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
SU 1398990A	N/A	1986SU-4160339	December 15, 1986

INT-CL (IPC): B22F007/04

ABSTRACTED-PUB-NO: SU 1398990A

BASIC-ABSTRACT:

The design includes holder (2) for article (1) with clamping screw (4) mounted in the chuck (3) on shaft (22) having section (21) of lead screw type and revolved by a pair of pinion/nut (19,20) by reversible motor (18). Frame (24) contains diametrically mounted two deforming rolls (7) in forks (9) mounted in rocker-arm levers (13) turnable on hinges (14). The rolls (7) are pressed to the article by springs (10) and (15); inside the article there is placed an induction coil (6) of TVCh type. USE/ADVANTAGE - The appts. for shaping metal coatings on conical surfaces can be used in powder metallurgy for reclamation or reinforcement of articles having the shape of hollow solids of revolution. Widened scope of prodn. process, due to possibility of coating conical surfaces. In operation, the article (1) with surface coated with metal powder is fixed on holder (2) and heated by induction coil (6) to 500-600 deg.C; then, within 40-50 sec. the shaft (22) is revolved simultaneously moving up (or down) by reversible motor (18), and the rolls (7) perform the rolling (compacting) of the coating. Bul. 20/30.5.88

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: APPARATUS SHAPE METAL COATING CONICAL SURFACE VERTICAL
MOVE HOLD

CONICAL ARTICLE DEFORM UNIT AXIS SPRING TENSION FORK

DERWENT-CLASS: M22 P53

CPI-CODES: M22-H03A; M22-H03F;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1988-159133

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